

We claim:

1. An optical disc drive for reading data on a disc having data on two sides, said drive including:
 - a tray supporting a disc;
 - a housing with an opening defined by at least one wall, said tray being movable within said opening between an open position in which said disc can be placed on and removed from said tray, and a closed position in which data on said disc can be read;
 - a first read head mounted on said wall and directed toward one side of said disc;
 - a second read head mounted in said tray and directed toward the other side of said disc; and
 - electrical circuitry including a motor rotating the disc and buffers storing data from said read heads.
2. The disc drive of claim 1 wherein said housing is sized to fit within a standard bay of a PC.
3. The disc drive of claim 1 wherein said housing is sized and shaped for integration within a laptop-type device.
4. The disc drive of claim 1 wherein said wall extends over said tray.
5. The disc drive of claim 1 wherein said tray has a bottom wall and said

second read head is mounted on said bottom wall positioned to be adjacent the other side of the disc when said tray is in the closed position.

6. A desktop PC comprising:

a case with a bay;

a disc drive disposed in said bay, said disc drive including a housing having a wall defining an opening, a tray fitted in said opening and being selectively movable between an open position to receive an optical disc and a closed position in which said optical disc is positioned for data exchange, a first read head attached to said wall, and a second read head attached to said tray, said read heads being arranged to read respective opposite sides of the optical disc.

7. The desktop PC of claim 6 further comprising a controller and a motor cooperating to read data from either side of the disc.

8. The desktop PC of claim 6 further comprising a controller and a motor cooperating to read data from both sides of the disc simultaneously.

9. The desktop PC of claim 6 wherein said tray is formed with a hole through which one of said heads reads a respective disc side.

10. A portable computing device comprising:

a case formed with an opening having an interior wall;

a tray movable within said opening to allow an optical disc to be placed on the tray;

a first read head disposed on the tray under said optical disc to selectively read data from its bottom side; and

a second read head supported on said interior wall and positioned to selectively read data from the top side of the optical disc.

11. The portable computing device of claim 10 wherein said tray is formed with a hole, said second read head being positioned to read the bottom side of the optical disc through said hole.

12. The portable computing device of claim 10 further comprising a controller generating commands to the read heads to read data from the top and bottom sides sequentially.

13. The portable computing device of claim 10 further comprising a controller generating commands to the read heads to read data from the top and bottom sides simultaneously.

14. An optical disc player comprising:

a housing with an opening having first and second walls, said walls being opposite to each other;

a first read head disposed on one of said walls;

a second read head; and

a mechanism selectively moving an optical disc between said read heads to allow said read heads to read data from said optical disc.

15. The optical disc player of claim 14 wherein said mechanism includes a tray selectively movable between an open position in which it accepts the optical disc and a closed position in which the read heads read data on the disc.

16. The optical player of claim 15 wherein said second read head is attached to said tray.

17. The optical player of claim 14 wherein said second read head is attached to the second wall.

18. The optical player of claim 17 wherein said mechanism includes an arm selectively moving the disc in and out of the opening.